Di B'rite

Brighter building with Di B'rite elevator

SIGMA

Di B'rite

- **Digital Control** The idea that utilizes small spaces
- **Simple & Bright Design** Fascinating designs that makes customers feel good
- **Safety & Reliability** Technology that can upgrade a building's value

SPECIFICATION

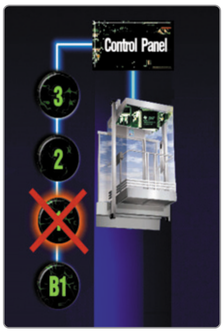
rated speed 60m/min | **rated load** 450~750kg | **maximum travel** 50m | **maximum service floor** 15

Di B'rite PRIDE

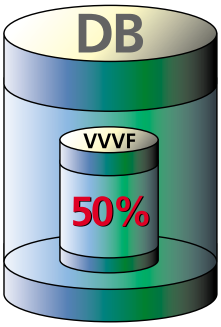
Harmonizing the elegance and performance of Di B'rite will enhance the value of your buildings

Digital AC-VVVF Control

Distributed Control System



Power Consumption - 50% Down



Safety & Reliability

EMI Test

(Electro Magnetic Interference)

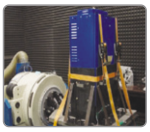
Fully tested for controller's function against electromagnetic waves

ESD Test

(Electro Static Discharge)

Fully tested for possible malfunction due to diverse ESD

Vibration and Dropping Test



Fully tested for vibrations & operation failure of internal parts

Burst Test

Fully tested for signals, external surges of power lines and noises

Simple & Bright Design

Universal Button

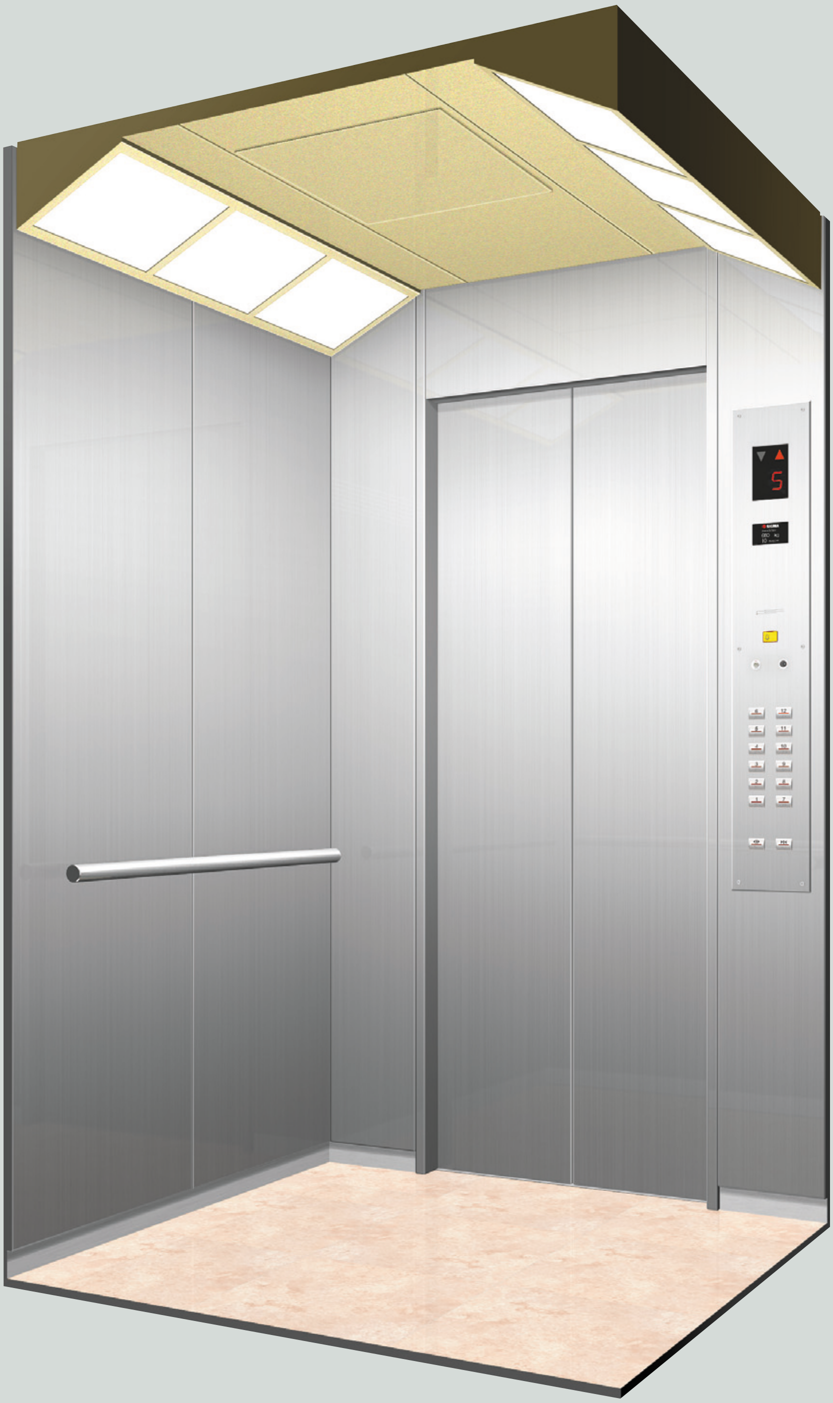
Higher Ceiling

Simply Designed Brighter Illumination

Natural Classic I

SPECIFICATION

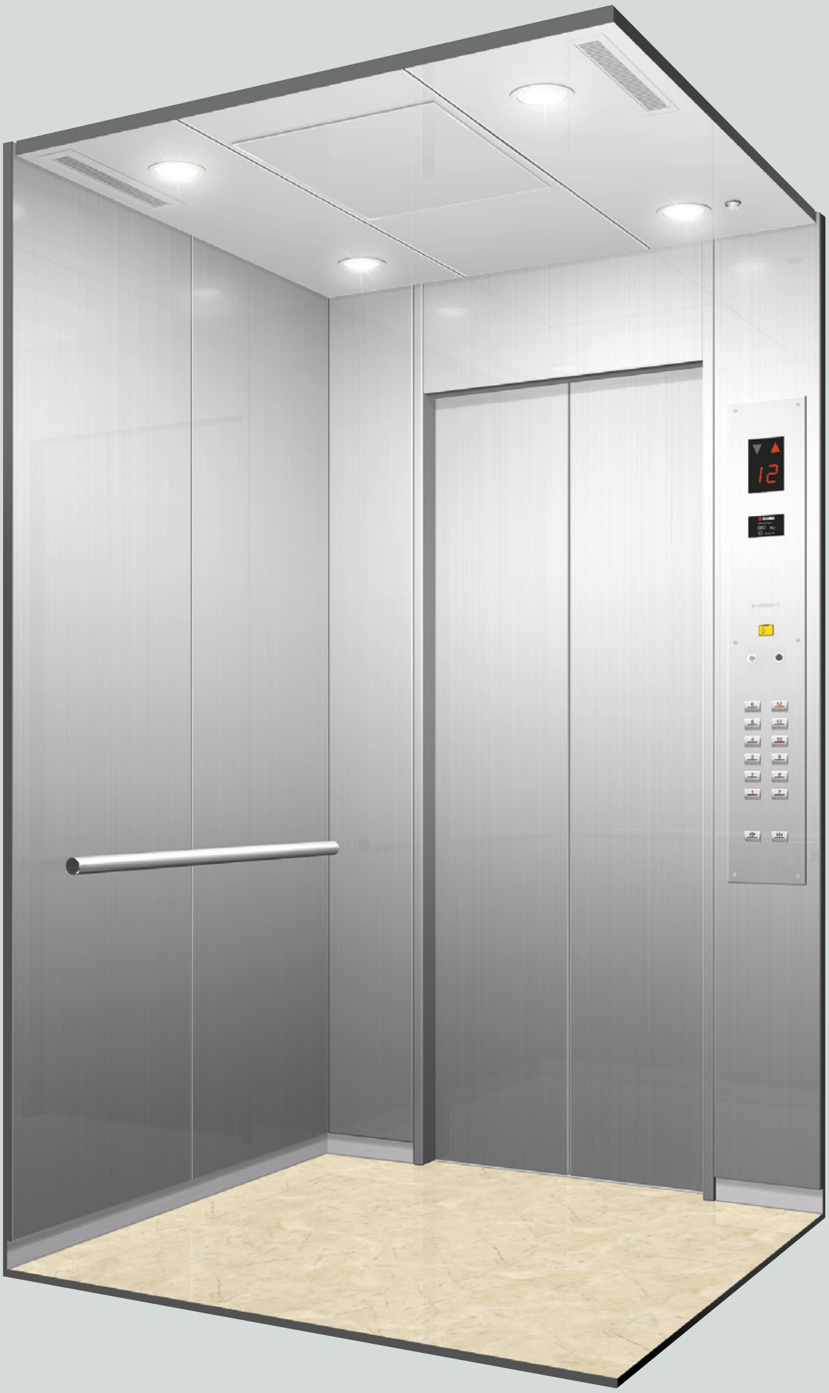
1. Ceiling	C-VS1(LGM-922)
2. Wall	Stainless Steel Hairline Finish
3. Operating Panel	CBM-15C
4. Door	Stainless Steel Hairline Finish
5. Handrail	HR-04/Ø34HL
6. Floor	Deco-tile



Natural Classic II

SPECIFICATION

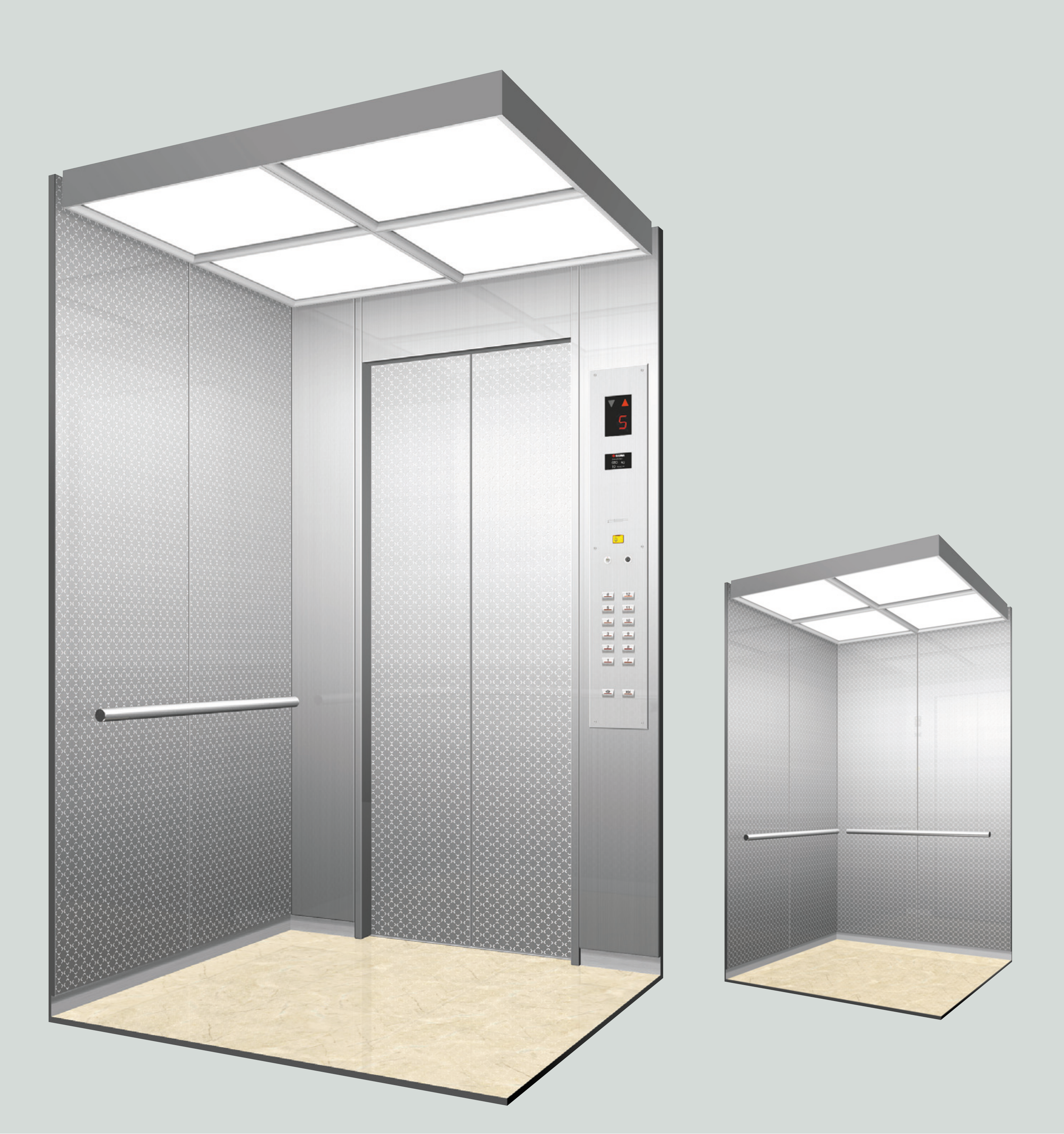
1. Ceiling	C-VS2(LGP-934)
2. Wall	Stainless Steel Hairline Finish
3. Operating Panel	CBM-15C
4. Door	Stainless Steel Hairline Finish
5. Handrail	HR-04/Ø34HL
6. Floor	Deco-tile



Metro Modern

SPECIFICATION

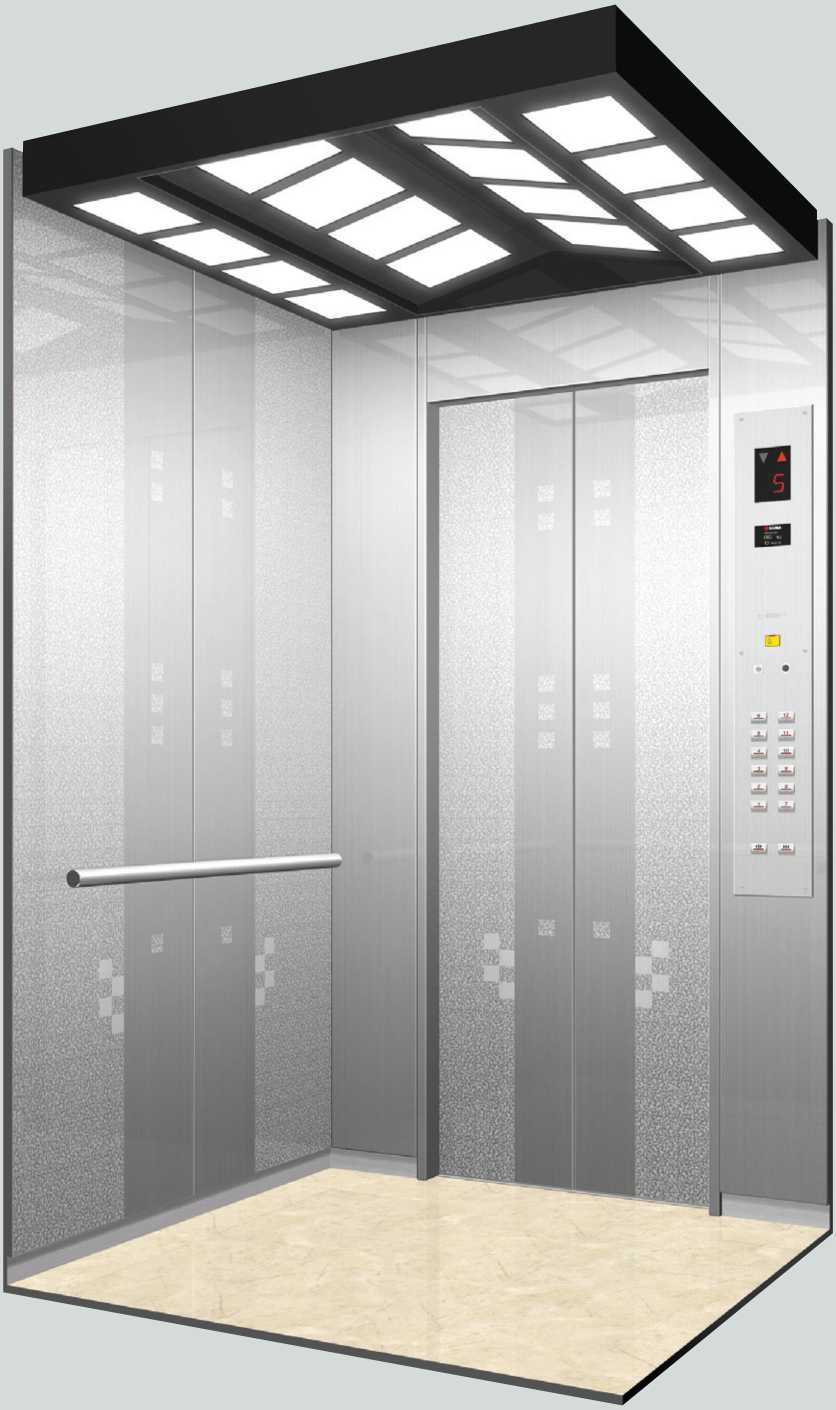
1. Ceiling	C-VL1
2. Wall	Stainless Steel Etching(EW2-064)
3. Operating Panel	CBM-15C
4. Door	Stainless Steel Etching(EH1-064)
5. Handrail	HR-04/Ø34HL
6. Floor	Deco-tile



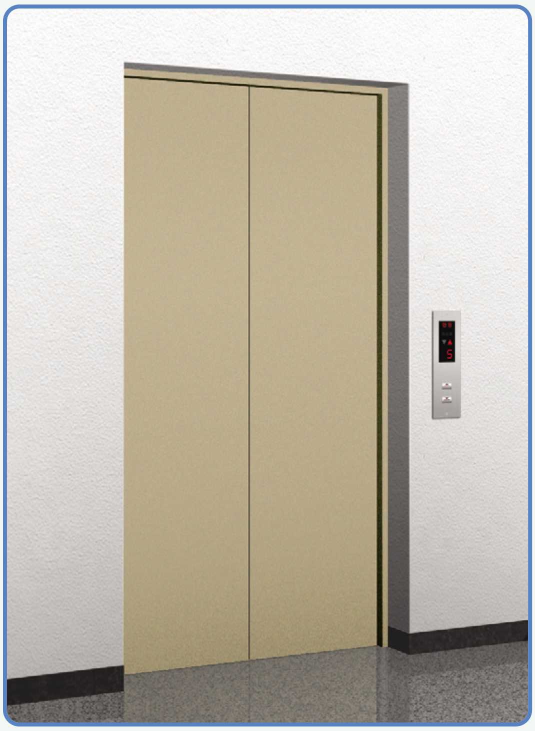
Neo Elegance

SPECIFICATION

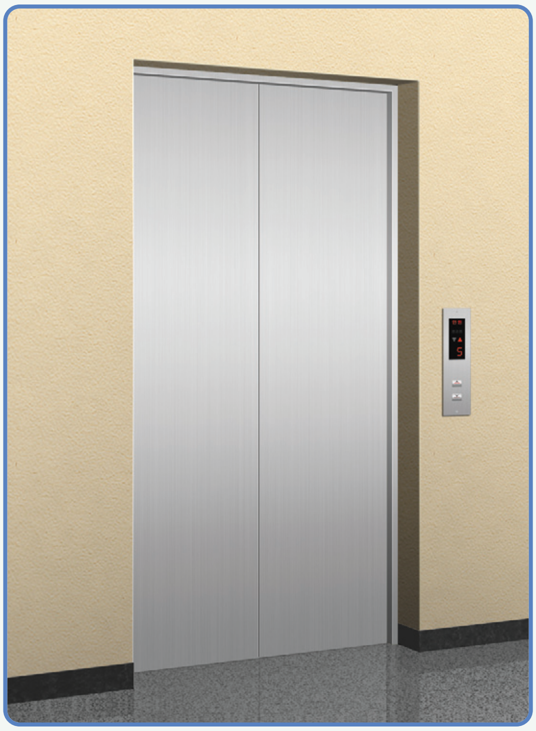
1. Ceiling	C-VL2(LGM-920)
2. Wall	Stainless Steel Etching(EW2-067)
3. Operating Panel	CBM-15C
4. Door	Stainless Steel Etching(EH1-067)
5. Handrail	HR-04/Ø34HL
6. Floor	Deco-tile



Entrance Design



1



2

SPECIFICATION 1

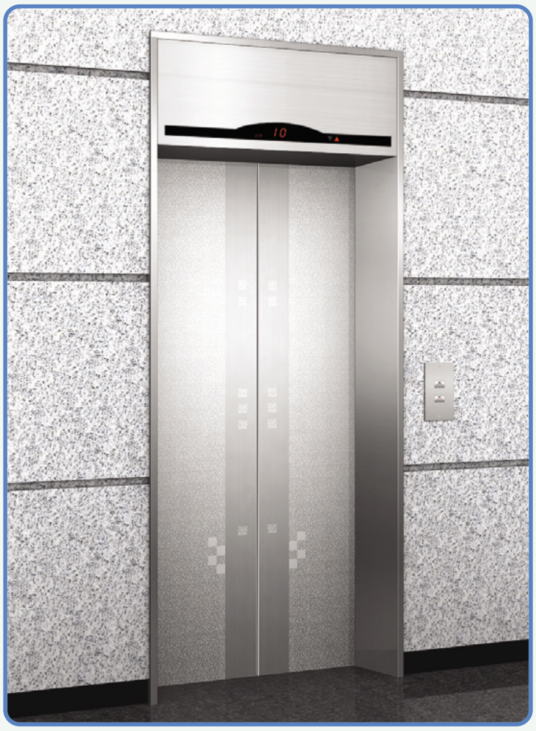
Jamb	Narrow jamb in painted steel sheet (LGM-922)
Door	Painted steel sheet (LGM-922)
Hall Indicator	VID-M472

SPECIFICATION 2

Jamb	Narrow jamb in stainless steel hairline finish
Door	Stainless steel hairline finish
Hall Indicator	VID-M472

SPECIFICATION 3

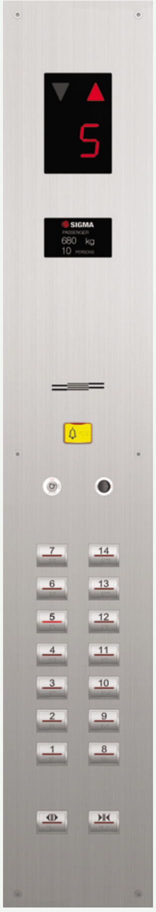
Jamb	Wide jamb with transom panel in stainless steel hairline finish
Door	Stainless steel etching(EH1-067)
Hall Indicator	HID-A122
Hall Button	HBM-S47



3

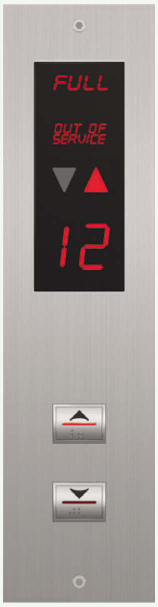
Fixtures & Handrails

Car Operating Panel

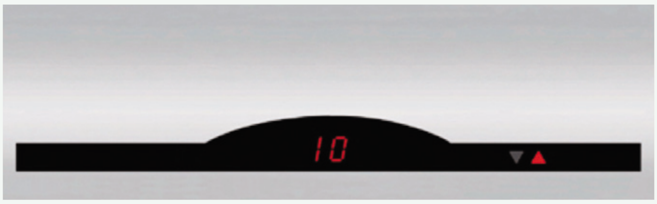


CBM-15C

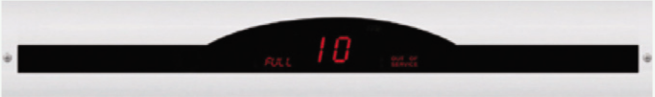
Hall Position Indicator



VID-M472

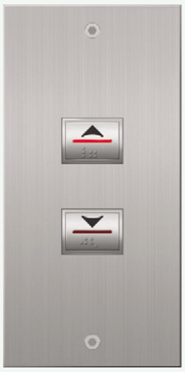


HID-A122



HID-C122

Hall Button



HBM-S47

Handrails

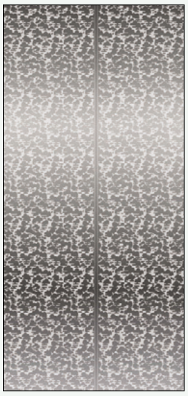
HR-02

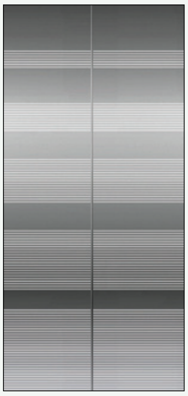
HR-04

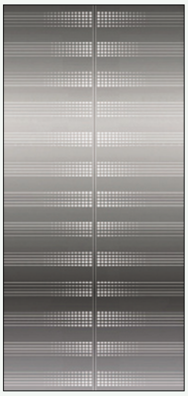
Etchings & Colors

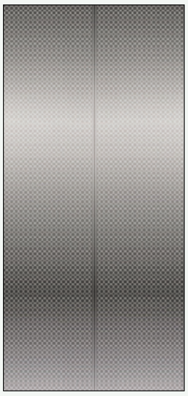
Etchings & Colors

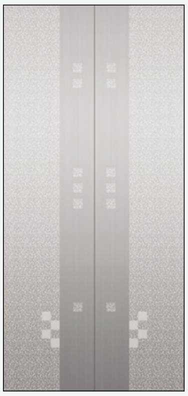
Etching Pattern

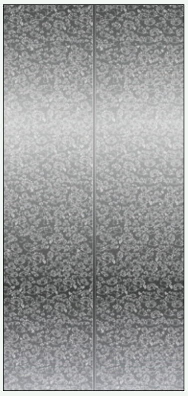

Car Door : EH3-005
Car Wall : EW4-005

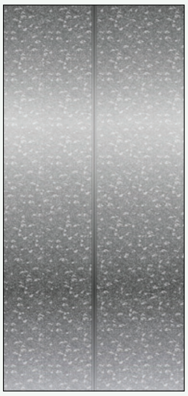

Car Door : EH3-034
Car Wall : EW4-034


Car Door : EH1-062
Car Wall : EW2-062

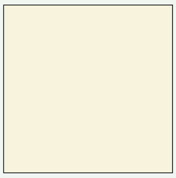

Car Door : EH1-064
Car Wall : EW2-064

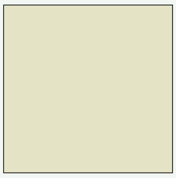

Car Door : EH1-067
Car Wall : EW2-067

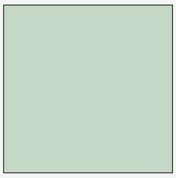

Car Door : EH1-069
Car Wall : EW2-069

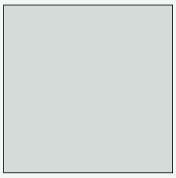

Car Door : EH1-070
Car Wall : EW2-070

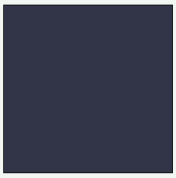
Painted Steel Sheet Color

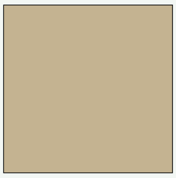

LGP-015


LGP-923


LGP-927


LGP-934


LGM-920


LGM-922

※Above color may differ from the actual color due to printing

Technical Data

Planning Guide for Dimensions & Power Supply Plan

Standard

(Unit : mm)

Speed (m/min)	Capacity		Opening Type	Entrance Opening (mm)	Car Size		Hoistway Size		Machine Room Size		Machine Room Reaction Load(kg)		Pit Reaction Load(kg)	
					Inside	Outside	Simplex		Simplex					
	Person	Load(kg)			AN × BN	AS × BS	AH	BH	AM	BM	R1	R2	R3	R4
60	6	450	2 Panel Center Opening	800	1400× 850	1450×1032	1800	1450	1800	3200	3600	2000	4200	3700
					1200×1100	1250×1282	1800	1700	1800	3450				
	8	550		800	1400×1030	1450×1212	1800	1650	1800	3400	4050	2500	4700	3900
					1100×1350	1150×1532	1800	1950	1800	3700				
	9	600		800	1400×1100	1450×1282	1800	1700	1800	3450	4100	2500	4900	4000
					1100×1400	1150×1582	1800	2000	1800	3750				
	10	680		800	1400×1250	1450×1432	1800	1850	1800	3600	4200	2800	5300	4400
					1100×1550	1150×1732	1800	2150	1800	3900				
	11	750		800	1400×1350	1450×1532	1800	1950	1800	3700	4550	2900	5600	4500
					1200×1550	1250×1732	1800	2150	1800	3900				

Power Supply Plan

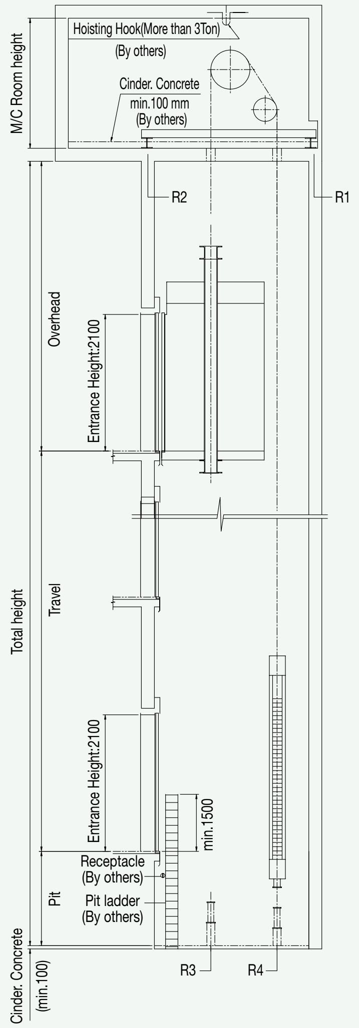
200/400

Speed (m/min)	Capacity		Motor Capa. (kW)	MCCB Capacity of Bulding(A)		Power Supply Capacity(KVA)		Lead-in Wire Size(mm^2)		Earth Wire Size(mm^2)	Heat Output (Kcal/H)	Starting Power (KVA/set)
	Person	Load(kg)		1 Set	2 Sets	1 Set	2 Sets	1 Set	2 Sets	1 Set		
60	6	450	5.5	30/20	60/40	4.2	8.4	8.0/5.5	14.0/5.5	5.5/3.5	675	13.1
	8	550	5.5	35/20	70/40	5.1	10.2	8.0/5.5	14.0/5.5	5.5/3.5	825	16.0
	9	600	7.5	40/30	75/50	5.5	11	8.0/5.5	14.0/5.5	5.5/5.5	900	17.5
	10	680	7.5	45/30	85/50	6.3	12.6	14.0/5.5	22.0/8.0	5.5/5.5	1020	19.9
	11	750	7.5	50/30	95/60	6.9	13.8	14.0/5.5	22.0/8.0	5.5/5.5	1125	21.8

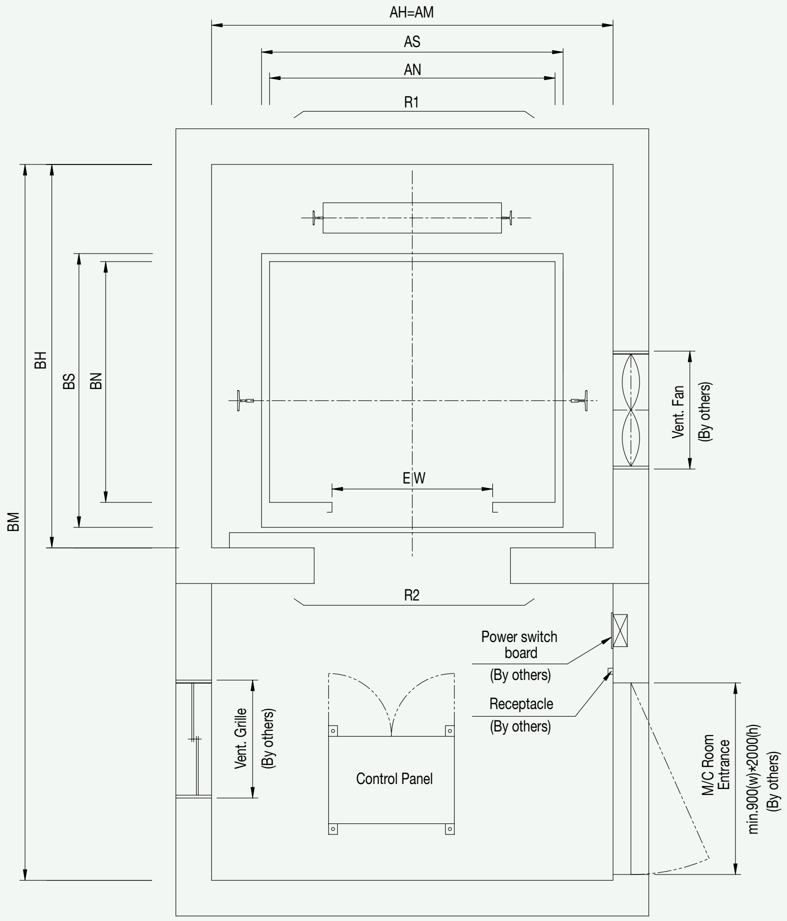
Technical Data

Elevator Layouts

Hoistway Section



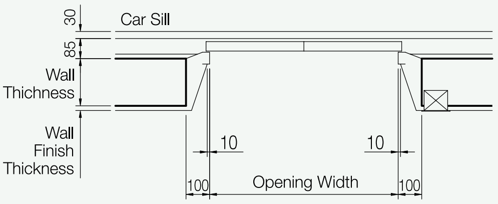
Hoistway & Machine Room Plan



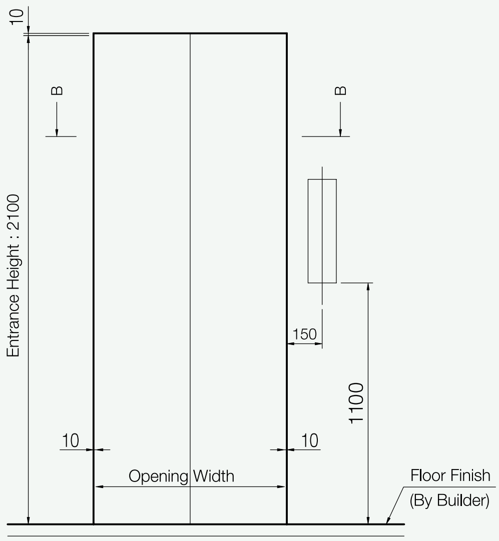
Speed	60	
Load	450 / 550	600 / 750
Machine Room Height	2,000	2,200
Overhead	4,600	4,600
Pit Depth	1,500	1,500

Narrow Jamb without Transom Panel

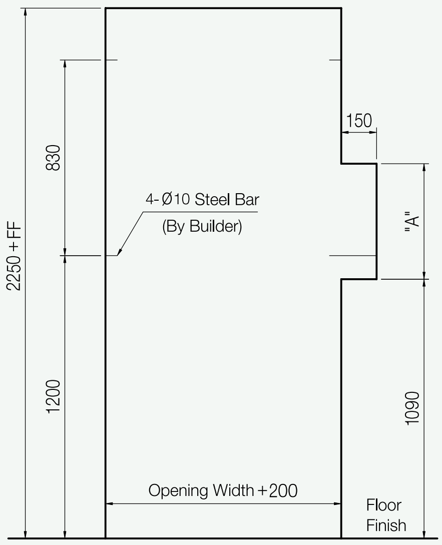
Section B-B



Front View of Entrance

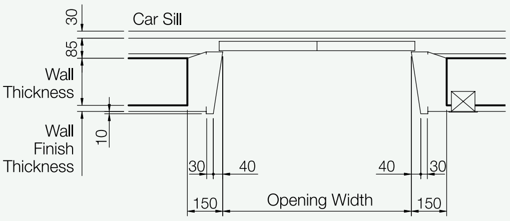


Building Structure Plan

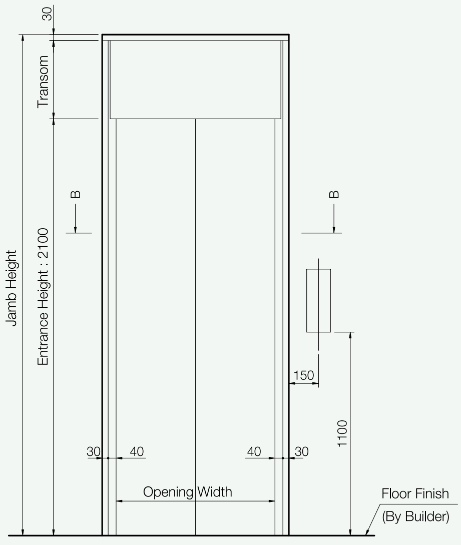


Wide Jamb with Transom Panel

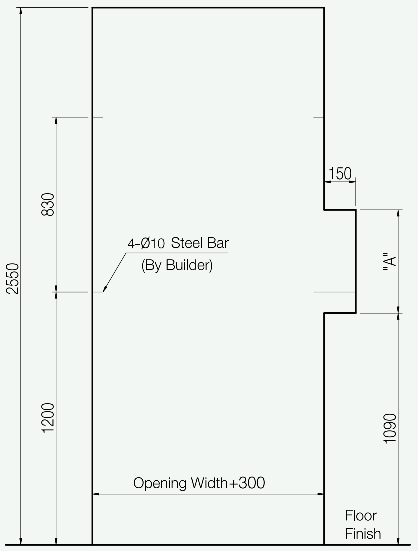
Section B-B



Front View of Entrance



Building Structure Plan



"A" Dimension

Hall Button	"A"
HBM-S47	260
VID-M472	480

Technical Data

Technical Features

◎ Standard ◈ Option

Feature	Description	Remark
Anti-nuisance operation	In case of substantial difference between the number of calls registered on the car operating panel and actual load in the elevator, the elevator prevents unnecessary operation by cancelling all registered calls when it arrives at the nearest floor.	◎
Car call cancellation	Allows cancellation of an incorrectly registered car call. If you push a wrong floor button in the car, you can cancel it by pressing the same button one more time.	◎
Automatic turn off of car light and fan	Car illumination and fan are turned off automatically in case of no hall call or car call to save energy.	◎
By pass operation (80%)	If the actual load comes to more than 80% of the allowable maximum load, the elevator will not react to the calling signals from other passing floors.	◎
Over load(110% of rated load) holding stop	When the load of passengers exceeds the maximum capacity, a buzzer sounds and the elevator remains stopped at that floor. When the passengers get off, the buzzer will stop. Consequently, elevator doors will close and operation continues.	◎
Anti hall button jamming	If a landing door would not close by a hall button being jammed and the car can't move, the door will close in force by the command from controller so that the car responds to the next call.	◎
Door reopen control	While the car door is closing, door will reopen immediately upon receiving a door reopen signal. After elapsing specific time, the door will close again.	◎
Car door safety edge	This device enables the doors to rerurn to the fully open position, should the door encounter a person or obstacle while closing.	◎
Automatic adjustment of door time	Door opening and closing time can be adjusted in order to improve the efficiency.	◎
Micro leveling	The control system improves the leveling accuracy of car's stops.	◎
Floor height measuring operation	In order for the normal operation adjustment, a trial run will be executed automatically to get the actual length of each landings. After measured, the actual length will be stored into the main memory to be used during the normal operation.	◎
Back-up operation	In normal operation, if the serial communication between the controller and it's terminal board have some problems, the car mode change to a "Back-Up" mode automatically. Then the car makes a self check by servicing every even floors and every odd floors until the car returns to the normal condition. By this operation, even though the car has something malfunction, passengers can be offered a limited service without shutdown.	◎
Safe drive operation	When a car stops between floors due to mechanical malfunction, it will descend to the nearest floor at a low speed and hold the doors open after checking all safety measures.	◎
Night time sound control	The sound of the voice synthesizer will be reduced automatically in night time.	◈
Voice synthesizer	This system provides passengers with audio information about car operation such as direction of travel, landing floor.	◈
Door photo sensor	The doors will return to fully open position if the light ray unit detects an obstacle when the doors are closing.	◈
Forced floor stop	After serving the specific floor stop from a car call by a passenger inside the car, the car moves to the originally destined floor.	◈
Parking operation	If the parking key is on position, the car stops at the specific floor after serving all registered calls. After the car stops at the specific floor, the car light and fan are turned off automatically and all buttons on car operating panel and hall button box are no longer in service.	◈
Fire return operation	In case of fire, every cars should return to the specified floor in order to evacuate passengers safely.	◈
Fireman operation	In case of fire, firemen can use the elevator at the specific floor in order to support fire-fighting.	◈

Work by Others

The works below are not included in the elevator installation work and should be carried out by building contractors in accordance with our drawings, relevant international or local codes and regulations.

Hoistway

- A properly framed and enclosed hoistway, including any ventilation as requried by the governing code or authority.
- A dry pit constructed to the elevator manufacturer's specifications to reinforce or sustain any vertical forces on the guide rails and impacted loads from the car and counterweight buffers.
- A metal sill angle or concrete haunch across the full width of the hoistway at each elevator landing.
- Provision of steel bars to fix jamb around the entrance of each floor.
- All cutting, including cutouts to accommodate hall signal fixtures, patching, painting of walls, floors, or partitions, together with finish painting of entrance doors and frames, if required.
- Provision of entrance or ladder for pit access
- Supply and installation of fascia plate.
- Installation of emergency exits and electric wiring in blind sections of hoistway where required.
- The tolerance of perpendicular line over the whole hoistway height must not exceed ±30mm.
- A waterproof outlet and light fixture in the elevator pit area with the light switch being located adjacent to the access door or ladder.
- Suitable light fixture and convenience outlet in the pit with a light switch adjacent to the access door or ladder.
  The receptacles shall have protection for ground fault circuit interrupter.

Machine Room

- Provision of wiring between controller and building management system.
- A construction hoisting beam or hook, if required, with the correct location and size as determined by the elevator contractor for each hoistway.
- Noise insulation should be installed between machine room and adjacent residential area.
- A suitable machine room with legal access, ventilation and concrete floor.
  The temperature in the machine room should be maintained between 5℃ and 40℃.
  Relative humidity should not exceed 90%(monthly) and 95%(daily) non-condensing.
  Ventilation fan or Air conditioner should be provided as per heat dissipation by the elevator contractor.
- The size of entrance shall be Min.1000mm(W) x 2000mm(H).
- Installation of lead-in wire and earth wire between building main power board and machine room incoming distribution board. However, machine room lighting source supply shall be installed separately.
- Provision of suitable light fixture and convenience outlets in the machine room

Miscellaneous

- Wiring and piping between monitoring system.
- Machine room and hoistway shall be free of dust or harmful gas.
- All electric power for lighting, tools, welding, etc during installation.
- All single phase receptacles installed in machine room, pit, and machinery spaces shall have ground fault circuit interrupter protection.
- Fire detector for fire emergency operation.
- A secured area for storage of elevator equipment and materials during installation.

SIGMA

www.sigmaelevator.com

SIGMA constantly endeavors to improve products so that information in this catalog is subject to change without notice.

2005. 7 Printed in Korea